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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,449	09/09/2003	Mark A. Reiley	29914-703.201	5178
21971	7590	08/28/2006	EXAMINER	
WILSON SONSINI GOODRICH & ROSATI 650 PAGE MILL ROAD PALO ALTO, CA 94304-1050			ISABELLA, DAVID J	
			ART UNIT	PAPER NUMBER
			3738	

DATE MAILED: 08/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/658,449

Applicant(s)

REILEY, MARK A.

Examiner

DAVID J. ISABELLA

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) 25-27 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>6/06/6/05</u> | 6) <input type="checkbox"/> Other: _____ |

Status of the Claims

Claims 1-27 are pending. Claims 1-24 are pending for consideration.

Election/Restrictions

Claims 25-27 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 6/12/2006.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 29 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 29 should be reworded in the form of a Markush group. As worded it is not clear if each material, as cited, is present in the prosthetic.

a

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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Claims 21 and 23 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims as worded positively recites the in vivo body structure as part of applicant's device.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2,4-6,8,9,11-17,19 are rejected under 35 U.S.C. 102(b) as being anticipated by any of Zang et al (5314486), Wall [4633722], Homsy et al [4778472] and Morgan [4917701].

Each prior art individually discloses a prosthesis comprising a fastenting element, and an artificial joint structure carried by the fastening element. While the prosthesis of each prior art is intended for replacement of a other type of joints, the structure as broadly claimed is fully met by each of the applied prosthesisl. Each prosthesis is structurally similar to that as illustrated by applicant and therefor, examiner contends that each device is capable of performing the function of replacing all or a portion of the natural facet joint.

Claim 2, the claim as worded may be interpreted in the manner by which the prosthesis is attached in vivo (ie. method of using the prosthesis, where the placement of the device would position the fastening element superior to the joint structure.

Claim 3, see rejection to claim 2 supra.

Claim 5, the placement of the prior art joint according to claim 1 would yield in a facet joint structure that articulates with a portion of the joint structure of the adjoining vertebral body.

Claims 6 and 7, see claim 5 supra.

Claim 8, see each joint structure in the respective prior art as applied in claim 1 supra.

Claims 9 and 10 are directed to a method of implanting/securing the prosthesis of claim 1 and fails to positively set forth structure that further limits the prosthesis thereof. Moreover, the prior art shows various means for attaching the prosthesis to the bone structure including, adhesive and mechanical attachment, respectively.

Claims 11-18, see prosthesis of Zang, et al.

Claims 19 and 20, see materials as set forth in each reference as applied in claim 1.

Claims 22 and 24, see Zang, et al wherein the prosthesis is fabricated from selected biocompatible materials including titanium, cobalt chrome and may be fastened to the bone by with roughen surface providing a bone in-growth surface medium.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 11-12,14*18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zang,et al (5314486) as applied to claim 1 above, and further in view of Johnson et al (5609641).

The combination of the fastening element and the facet joint structure of Zang et al is illustrated to be one piece. It is well known in the art to fabricate the elements, fastening and the joint structure independently to be joined later by the surgeon, as shown for example by Johnson, et al. Independent elements allow for better sizing and matching of the prosthesis to the in vivo bone structure. In view of Johnson, et al, to fabricate the one piece prosthesis of Zang, et al out of two pieces would have been obvious to one with ordinary skill in the art as the independent pieces allows the surgeon greater flexibility.

Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zang et al as applied to claim 1 above, and further in view of Carignan, et al (4955916).

The insert of Zang et al is shown to be mechanically fixed to the fastening element. Carignan et al shows the same fixation of the insert to the fastening element using a morse taper connection. To connect the insert to the fastening element of Zang, et al with a morse taper connection would have been obvious to one with ordinary

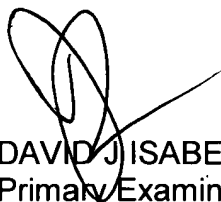
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skill in the art as being essentially equivalent means for fixing an insert to a main component.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID J ISABELLA whose telephone number is 703-308-3060. The examiner can normally be reached on MONDAY-THURSDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CORRINE MCDERMOTT can be reached on 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



DAVID J ISABELLA
Primary Examiner
Art Unit 3738

DJI
8/21/2006